



DE 14-279

Knollwood Energy of MA LLC
PO Box 30
Chester, New Jersey 07930

October 2, 2014

NHPUC 70CT'14AM11:50

Debra A. Howland
Executive Director
New Hampshire Public Utilities Commission
21 South Fruit Street, Suite 10
Concord, NH 03301-2429

Dear Ms Howland,

Enclosed please find the application for the Michael Thomas system to be part of the Knollwood Energy of MA LLC (NH-II-13-089) Class II Solar Photovoltaic aggregation for New Hampshire Renewable Energy Certificates (RECs) generated from customer-sited sources, pursuant to New Hampshire Code of Administrative Rules Puc 2506.

Customer and Facility Information

Michael Thomas
9 Ironwood Drive
Dover, NH 03820
603-743-6539
Michael@thomii.com

The Nepool GIS ID # for this facility is: NON43142. Also enclosed are the Simplified Process Interconnection Application and the Service Agreement and the Certificate of Completion for Simplified Process Interconnections. An electronic version has been sent to executive.director@puc.nh.gov.

Please do not hesitate to contact me if you have any questions regarding this application.

Thank you for your consideration.

Alane Lakritz

Alane Lakritz
President
Knollwood Energy of MA LLC
862-432-0259
Alane@KnollwoodEnergy.com

Enclosures (3)



State of New Hampshire
Public Utilities Commission

21 S. Fruit Street, Suite 10, Concord, NH 03301-2429



RENEWABLE ENERGY CERTIFICATE (REC) ELIGIBILITY FOR CLASS I AND CLASS II

SOURCES WITH A CAPACITY OF 100 KILOWATTS OR LESS

Pursuant to New Hampshire Administrative Code Puc 2500 Rules including Puc 2505.08, Certification of Certain Customer-Sited Sources

- Please submit one (1) original and two (2) paper copies of the completed application and cover letter* to: **Debra A. Howland, Executive Director, New Hampshire Public Utilities Commission**
21 South Fruit Street, Suite 10, Concord, NH 03301-2429
- Send an electronic version of the completed application and the cover letter electronically to executive.director@puc.nh.gov.
- The cover letter must include complete contact information and identify the renewable energy class for which the applicant seeks eligibility. Pursuant to Puc 2505.01, the Commission is required to render a decision on an application within 45 days of receiving a completed application.

If you have any questions please contact Barbara Bernstein at (603) 271-6011 or Barbara.Bernstein@puc.nh.gov.

☐ Photovoltaic (PV) solar facilities are Class II resources. Contact Barbara.Bernstein@puc.nh.gov for assistance.

Eligibility Requested for: Class I Class II ☒ Check here X if this facility part of an aggregation.
If the facility is part of an aggregation, please list the aggregator's name. Knollwood Energy of MA

☐ Provide the following information for the owner of the PV system.

Applicant Name Mike Thomas Email michael@thomii.com
Address 9 Ironwood Dr City Dover State NH Zip 03820
Telephone 603-743-6539 Cell _____

☐ For business applicants, provide the facility name and contact information (if different than applicant contact information).

Facility Name _____ Primary Contact _____
Address _____ City _____ State _____ Zip _____
Telephone _____ Cell _____
Email address: _____

☐ Provide a complete list of the equipment used at the facility, including the revenue grade REC meter, and, if applicable, the inverter. Your facility will not qualify for RECs without a REC meter.

equipment	quantity	Type	equipment	quantity	Type
PV panels	30	SolarWorld SW275 mono.	other		
Inverter	30	Enphase M250	other		
meter	1	Enphase - GE REM-MTR-01	other		

☐ A copy of the interconnection agreement and the approval to operate your PV system from your electric utility must be included with your application.

☐ For PSNH customers, both the Simplified Process Interconnection Application and Exhibit B - Certificate of Completion are required.

What is the nameplate capacity of your facility (found on your interconnection agreement)?

8.25

What was the initial date of operation (the date your utility approved the facility)?

5/28/14

☐ Provide the name, license number and contact information of the installer, or indicate that the equipment was installed directly by the customer.

Installer

Name ETE Solar Contact Kelly Smith License # (if applicable) _____

Address 32 Tyler Lane City Berwick State: NH Zip 03901

Telephone 207-251-6332 email Kelly.smith@etesolar.com

If the equipment was installed directly by the customer, please check here:

☐ Provide the name and contact information of the equipment vendor.

☒ Check here if the installer provided the equipment and proceed to the next question.

Business Name _____ Contact _____

Address _____ City _____ State _____ Zip _____

Telephone _____ email _____

☐ If an independent electrician was used, please provide the following information.

Electrician's Name Al Nadeau License # ~~823~~ 8238M.
Business Name Al Nadeau Electric Email _____
Address PO Box 7079 City Gonic State NH Zip 03839

☐ Provide the name of the independent monitor for this facility. (A list of approved independent monitors is available at http://www.puc.nh.gov/Sustainable%20Energy/Renewable_Energy_Source_Eligibility.htm.)

Independent Monitor's Name Tom Kelly Natural Capital

Is the facility certified under another state's renewable portfolio standard? yes nox

If "yes", then provide proof of the certification as **Attachment C**.

- Please note, if your facility is part of an aggregation, your aggregator should provide you with the following information.
- In order to qualify your facility's electrical production for Renewable Energy Certificates (RECs), you must register with the NEPOOL – GIS. Contact information for the GIS administrator follows:

James Webb

Registry Administrator, APX Environmental Markets

224 Airport Parkway, Suite 600, San Jose, CA 95110

Office: 408.517.2174 jwebb@apx.com

If you are not part of an aggregation, Mr. Webb will assist you in obtaining a GIS facility code.

GIS Facility Code # NON 43142 Asset ID # NON 43142

☐ Complete an affidavit by the applicant or qualified installer that the project is installed and operating in conformance with any applicable state/local building codes. Use either the following affidavit form or provide a separate document.

☐ The Commission requires a notarized affidavit as part of the application.

AFFIDAVIT

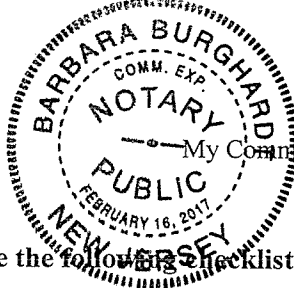
The Undersigned applicant declares under penalty of perjury that the project is installed and operating in conformance with all applicable building codes.

Applicant's Signature Alane Lakritz Date 9/24/14

Applicant's Printed Name Alane Lakritz

Subscribed and sworn before me this 24 Day of September (month) in the year 2014

County of Morris State of New Jersey



Barbara Burghard
Notary Public/Justice of the Peace

2/16/2017

☐ Complete the following checklist. If you have questions, contact barbara.bernstein@puc.nh.gov.

CHECK LIST: The following has been included to complete the application:	YES
• All contact information has been provided.	X
• A copy of the interconnection agreement. PSNH Customers should include both the Interconnection Standards for Inverters Sized up to 100 KVA <u>and</u> Exhibit B – Certification of Completion for Simplified Process Interconnection.	X
• Documentation of the distribution utility's approval of the installation.*	X
• If the facility is participating in another state's renewable portfolio standard (RPS) program, documentation of certification in other state's RPS.	
• A signed and notarized attestation.	X
• A GIS number obtained from the GIS Administrator.	X
• The document has been printed and notarized.	X
• The original and 2 copies are included in the packet mailed to Debra Howland, Executive Director of the PUC.	X
• An electronic version of the completed application has been sent to executive.director@puc.nh.gov .	X

*Usually included in the interconnection agreement.

☐ If the application has been prepared by someone other than the applicant, complete the following.
If the application was prepared by the applicant, check here and skip this section.

PREPARER'S INFORMATION

Preparer's Name Alane Lakritz Email address: alane@knollwoodenergy.com

Address PO Box 30 City Chester State NJ Zip 07930

Telephone 862-432-0590 Cell _____

Preparer's Signature: 

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
INTERCONNECTION STANDARDS FOR INVERTERS
SIZED UP TO 100 KVA

RECEIVED
APR 25 2014

Simplified Process Interconnection Application and Service Agreement

PSNH Application Project ID#:

102940

Contact Information:

Legal Name and Address of Interconnecting Customer (or, Company name, if appropriate)

Customer or Company Name (print): Mike & Christy Thomas ✓

Contact Person, if Company:

Mailing Address: 9 Ironwood Dr

City: Dover

State: NH

Zip Code: 03820

Telephone (Daytime): 603-743-6539

(Evening): Same

Facsimile Number: N/A

E-Mail Address: michael@thomasi.com

Alternative Contact Information (e.g., System installation contractor or coordinating company, if appropriate):

Name: Kelly Smith w/ ETE Solar

Mailing Address: 32 Tyler Lane

City: Berwick

State: ME

Zip Code: 03901

Telephone (Daytime): 207-251-6332

(Evening): Same

Facsimile Number: N/A

E-Mail Address: Kelly.Smith@etesolar.com

Electrical Contractor Contact Information (if appropriate):

Name: Al Nadeau

Mailing Address: P.O. Box 7079

City: Gorham

State: NH

Zip Code: 03839

Telephone (Daytime): 603-817-0120

(Evening): Same

Facsimile Number: N/A

E-Mail Address: N/A

Facility Site Information:

Facility (Site) Address: 9 Ironwood Dr. ✓

City: Dover ✓

State: NH

Zip Code: 03820

Electric

Service Company: PSNH

Account Number: 56328641055 ✓

Meter Number: 618422938 ✓

Account and Meter Number: Please consult an actual PSNH electric bill and enter the correct Account Number and Meter Number on this application. If the facility is to be installed in a new location, please provide the PSNH Work Request number.

PSNH Work Request #

Non-Default' Service Customers Only:

Competitive Electric

Energy Supply Company:

Account Number:

(Customer's with a Competitive Energy Supply Company should verify the Terms & Conditions of their contract with their Energy Supply Company.)

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
INTERCONNECTION STANDARDS FOR INVERTERS
SIZED UP TO 100 KVA

Simplified Process Interconnection Application and Service Agreement

Facility Machine Information:

Generator/ Inverter Manufacturer: Enphase ✓ Model Name & Number: M2S0 ✓ Quantity: 30 ✓
Nameplate Rating: 2500 25 (kW) (kVA) (AC Volts) Phase: Single ☒ Three ☐
Nameplate Rating: The AC Nameplate rating of the individual inverter. ✓
✓ System Design Capacity: 7.50 (kW) (kVA) Battery Backup: Yes ☐ No ☒
System Design Capacity: The system total of the inverter AC ratings. If there are multiple inverters installed in the system, this is the sum of the AC nameplate ratings of all inverters.
✓ Net Metering: If Renewably Fueled, will the account be Net Metered? Yes ☒ No ☐
Prime Mover: Photovoltaic ☒ Reciprocating Engine ☐ Fuel Cell ☐ Turbine ☐ Other _____
✓ Energy Source: Solar ☒ Wind ☐ Hydro ☐ Diesel ☐ Natural Gas ☐ Fuel Oil ☐ Other _____

Inverter-based Generating Facilities:

UL 1741 / IEEE 1547.1 Compliant (Refer To Part Puc 906 Compliance Path For Inverter Units, Part Puc 906.01 Inverter Requirements)
✓ Yes ☒ No ☐
The standard UL 1741.1 dated May, 2007 or later, "Inverters, Converters, and Controllers for Use With Independent Power Systems," addresses the electrical interconnection design of various forms of generating equipment. Many manufacturers choose to submit their equipment to a Nationally Recognized Testing Laboratory (NRTL) that verifies compliance with UL 1741.1. This term "Listed" is then marked on the equipment and supporting documentation. *Please include, any documentation provided by the inverter manufacturer describing the inverter's UL 1741/IEEE 1547.1 listing.*

External Manual Disconnect Switch:

An External Manual Disconnect Switch shall be installed in accordance with 'Part Puc 905 Technical Requirements For Interconnections For Facilities, Puc 905.01 Requirements For Disconnect Switches and 905.02 Disconnect Switch.'
✓ Yes ☐ No ☒

Location of External Manual Disconnect Switch: _____

Project Estimated Install Date: May 2014

Project Estimated In-Service Date: May 2014

Interconnecting Customer Signature:

I hereby certify that, to the best of my knowledge, all of the information provided in this application is true and I agree to the Terms and Conditions for Simplified Process Interconnections attached hereto:

Customer Signature: Mike Thomas (Apr 17, 2014) Title: Owner Date: Apr 17, 2014

Please include a one-line and/or three-line diagram of proposed installation. Diagram must indicate the generator connection point in relation to the customer service panel and the PSNH meter socket. Applications without such a diagram may be returned.

For PSNH Use Only

Approval to Install Facility:

Installation of the Facility is approved contingent upon the Terms and Conditions For Simplified Process Interconnections of this Agreement, and agreement to any system modifications, if required.

Are system modifications required? Yes ☐ No ☒ To be Determined ☐

Company Signature: Michael Ufotta Title: SR. ENGINEER Date: 4-25-14

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
INTERCONNECTION STANDARDS FOR INVERTERS
SIZED UP TO 100 KVA

Terms and Conditions for Simplified Process Interconnections

Company waives inspection/Witness Test: Yes ☒ No ☐

Date of inspection/Witness Test: _____

1. **Construction of the Facility.** The Interconnecting Customer may proceed to construct the Facility in compliance with the specifications of its Application once the Approval to Install the Facility has been signed by the Company. Such Approval relates only to the PSNH and Puc 900 electrical interconnection requirements, and does not convey any permissions or rights associated with permits, code enforcement, easements, rights of way, set back, or other physical construction issues.
2. **Interconnection and operation.** The Interconnecting Customer may operate Facility and interconnect with the Company's system once the all of the following has occurred:
 - 2.1. **Municipal Inspection.** Upon completing construction, the Interconnecting Customer will cause the Facility to be inspected or otherwise certified by the local electrical wiring inspector with jurisdiction.
 - 2.2. **Certificate of Completion.** The Interconnecting Customer returns the Certificate of Completion to the Agreement to the Company at address noted.
 - 2.3. **Company has completed or waived the right to inspection.**
3. **Company Right of Inspection.** The Company will make every attempt within ten (10) business days after receipt of the Certificate of Completion, and upon reasonable notice and at a mutually convenient time, conduct an inspection of the Facility to ensure that all equipment has been appropriately installed and that all electrical connections have been made in accordance with the Interconnection Standard. The Company has the right to disconnect the Facility in the event of improper installation or failure to return Certificate of Completion. All projects larger than 10 kVA will be witness tested, unless waived by the Company.
4. **Safe Operations and Maintenance.** The Interconnecting Customer shall be fully responsible to operate, maintain, and repair the Facility.
5. **Disconnection.** The Company may temporarily disconnect the Facility to facilitate planned or emergency Company work.
6. **Metering and Billing.** All renewable Facilities approved under this Agreement that qualify for net metering, as approved by the Commission from time to time, and the following is necessary to implement the net metering provisions:
 - 6.1. **Interconnecting Customer Provides:** The Interconnecting Customer shall furnish and install, if not already in place, the necessary meter socket and wiring in accordance with accepted electrical standards. In some cases the Interconnecting Customer may be required to install a separate telephone line.
 - 6.2. **Company Installs Meter.** The Company will make every attempt to furnish and install a meter capable of net metering within ten (10) business days after receipt of the Certificate of Completion if inspection is waived, or within 10 business days after the inspection is completed, if such meter is not already in place.
7. **Indemnification.** Interconnecting Customer and Company shall each indemnify, defend and hold the other, its directors, officers, employees and agents (including, but not limited to, Affiliates and contractors and their employees), harmless from and against all liabilities, damages, losses, penalties, claims, demands, suits and proceedings of any nature whatsoever for personal injury (including death) or property damages to unaffiliated third parties that arise out of, or are in any manner connected with, the performance of this Agreement by that party, except to the extent that such injury or damages to unaffiliated third parties may be attributable to the negligence or willful misconduct of the party seeking indemnification.
8. **Limitation of Liability.** Each party's liability to the other party for any loss, cost, claim, injury, liability, or expense, including reasonable attorney's fees, relating to or arising from any act or omission in its performance of this Agreement, shall be limited to the amount of direct damage actually incurred. In no event shall either party be liable to the other party for any indirect, incidental, special, consequential, or punitive damages of any kind whatsoever.
9. **Termination.** This Agreement may be terminated under the following conditions:
 - 9.1. **By Mutual Agreement.** The Parties agree in writing to terminate the Agreement.
 - 9.2. **By Interconnecting Customer.** The Interconnecting Customer may terminate this Agreement by providing written notice to Company.
 - 9.3. **By Company.** The Company may terminate this Agreement (1) if the Facility fails to operate for any consecutive 12 month period, or (2) in the event that the Facility impairs or, in the good faith judgment of the Company, may imminently impair the operation of the electric distribution system or service to other customers or materially impairs the local circuit and the Interconnecting Customer does not cure the impairment.
10. **Assignment/Transfer of Ownership of the Facility.** This Agreement shall survive the transfer of ownership of the Facility to a new owner when the new owner agrees in writing to comply with the terms of this Agreement and so notifies the Company.
11. **Interconnection Standard.** These Terms and Conditions are pursuant to the Company's "Interconnection Standards for Inverters Sized Up to 100 kVA" for the Interconnection of Customer-Owned Generating Facilities, as approved by the Commission and as the same may be amended from time to time ("Interconnection Standard"). All defined terms set forth in these Terms and Conditions are as defined in the Interconnection Standard (see Company's website for the complete document).

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
INTERCONNECTION STANDARDS FOR INVERTERS
SIZED UP TO 100 KVA (Continued)

Exhibit B - Certificate of Completion for Simplified Process Interconnections

Installation Information:

☐ Check if owner-installed

Customer or Company Name (print): Mike Thomas
Contact Person, if Company: _____
Mailing Address: 9 Ironwood Dr
City: Dover State: NH Zip Code: 03820
Telephone (Daytime): 603-743-6539 (Evening): same
Facsimile Number: _____ E-Mail Address: _____

Address of Facility (if different from above): Same
City: _____ State: _____ Zip Code: _____

Generation Vendor:

Contact Person:

I hereby certify that the system hardware is in compliance with Puc 900.

Vendor Signature:

Date:

Electrical Contractor's Name (if appropriate): Kelly Smith w/ ETE Solar
Mailing Address: 32 Tyler Lane
City: Berwick State: ME Zip Code: 03901
Telephone (Daytime): 207-251-6332 (Evening): same
Facsimile Number: _____ E-Mail Address: kelly.smith@etesolar.com
License number: _____

Date of approval to install Facility granted by the Company: 25 April 2014 Installation Date: 5/13/2014

Application ID number: N2940

Inspection:

The system has been installed and inspected in compliance with the local Building/Electrical Code of

Dover / Stafford County
(City/County)

Signed (Local Electrical Wiring Inspector, or attach signed electrical inspection)

Name (printed): JAMES H. MALFIELD

Date: 5/28/14

Customer Certification:

I hereby certify that, to the best of my knowledge, all the information contained in this Interconnection Notice is true and correct. This system has been installed and shall be operated in compliance with applicable electrical standards. Also, the initial start up test required by Puc 905.04 has been successfully completed.

Customer Signature: _____

Date: _____